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312.104331R00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

~~Applicants:~~ K. Hill et al.
~~Serial No.:~~ 09/342,707
~~Filed:~~ June 29, 1999
~~For:~~ METHOD OF FABRICATING BRAGG GRATING USING A
SILICA PHASE GRATING MASK AND MASK USED BY SAME
~~Group:~~ 2874
~~Examiner:~~ B. Healy

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7/12/02

AMENDMENT

Assistant Commissioner
for Patents
Washington, D.C. 20231

September 3, 2002

Sir:

In response to the Office Action dated July 31, 2002, please amend the
above-identified application as follows:

In the Claims:

Please add new claims 43-54 as follows:

-- 43. A method of fabricating Bragg gratings in the interior of an optical waveguide
comprising disposing a silica glass phase grating mask adjacent and parallel to a
photosensitive optical waveguide and applying a single collimating light beam
through the phase grating to said optical waveguide as a medium, said phase grating
mask being a slab of silica glass having parallel corrugations on a surface thereof
forming a surface relief pattern.

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